




UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

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|--|---|------------------|-----------------------------|--------|------|
| Date July 25, 2018 | EPA Reg No./File Symbol 71910 - 4 | Page 1 of 3 | | | |
| Applicant's/Registrant's Name & Address Thermacell Repellents, Inc., c/o Scientific Coordination, Inc., 4629 Cherry Valley Drive, Rockville, MD 20853 | Product Thermacell® Mosquito Repellent Candle Lantern | | | | |
| Ingredient d-cis/trans allethrin | | | | | |
| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
| Product Chemistry 830.1550 | Chemical Identity | See CSF | Thermacell Repellents, Inc. | OWN | |
| 830.1650 | Begin. Materials & Mfg Process | 47142401 | Thermacell Repellents, Inc. | OWN | |
| 830.1670 | Discussion of Formation of Impurities | 47406401 | Thermacell Repellents, Inc. | OWN | |
| 830.1700 | Preliminary Analysis | 49135602 | Endura S.p.A. | PER | |
| 830.1750 | Certification of Ingredient Limits | See CSF | Thermacell Repellents, Inc. | OWN | |
| 830.1800 | Analytical Method to Verify Certified Limits | 47406401 | Thermacell Repellents, Inc. | OWN | |
| 830.6302 | Color | 47406401 | Thermacell Repellents, Inc. | OWN | |
| 830.6303 | Physical State | 47406401 | Thermacell Repellents, Inc. | OWN | |
| 830.6304 | Odor | 47406401 | Thermacell Repellents, Inc. | OWN | |
| 830.6313 | Stability | 49135604,05,06 | Endura S.p.A. | PER | |
| 830.6314 | Oxidizing/Reducing Action | 49135606 | Endura S.p.A. | PER | |
| 830.6315 | Flammability | 47406401 | Thermacell Repellents, Inc. | OWN | |
| 830.6316 | Explodability | 47406401 | Thermacell Repellents, Inc. | OWN | |
| 830.6317 | Storage Stability | 48472601 | Thermacell Repellents, Inc. | OWN | |
| 830.6319 | Miscibility | 49135606 | Endura S.p.A. | PER | |
| Signature  | Name and Title Timothy H. Dickens, Ph.D., Authorized Agent | Date 07-25-18 | | | |




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| Ingredient d-cis/trans allethrin | | | | | |
| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
| 830.6320 | Corrosion Characteristics | 48472601 | Thermacell Repellents, Inc. | OWN | |
| 830.6321 | Dielectric Breakdown Voltage | 47406401 | Thermacell Repellents, Inc. | OWN | |
| 830.7000 | pH | 47406401 | Thermacell Repellents, Inc. | OWN | |
| 830.7100 | Viscosity | 47406401 | Thermacell Repellents, Inc. | OWN | |
| 830.7200 | Melting Point | 49135603 | Endura S.p.A. | PER | |
| 830.7220 | Boiling Point | 49135603 | Endura S.p.A. | PER | |
| 830.7300 | Density | 47406401 | Thermacell Repellents, Inc. | OWN | |
| 830.7370 | Dissociation Constant | 49135606 | Endura S.p.A. | PER | |
| 830.7550 | Octanol/Water Partition Coefficient | 49135602 | Endura S.p.A. | PER | |
| 830.7860 | Solubility | 49135603 | Endura S.p.A. | PER | |
| 830.7950 | Vapor Pressure | 49135603 | Endura S.p.A. | PER | |
| Toxicology 870.1100 | Acute Oral LD50 - Rat | 41017101 | Sumitomo | OLD | |
| 870.1200 | Acute Dermal LD50 - Rat/Rabbit | 41017102 | Sumitomo | OLD | |
| 870.1300 | Acute Inhalation LC50 - Rat | 41017103 | Sumitomo | OLD | |
| 870.2400 | Primary Eye Irritation - Rabbit | 41017104 | Sumitomo | OLD | |
| Signature  | | | Name and Title Timothy H. Dickens, Ph.D., Authorized Agent | | Date 07-25-18 |




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| Ingredient d-cis/trans allethrin | | | | | |
| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
| 870.2500 | Primary Dermal Irritation | 41017104 | Sumitomo | OLD | |
| 870.2600 | Dermal Sensitization | 41017105 | Sumitomo | OLD | |
| Efficacy 810.3400 | | | | | |
| 810.3400 | Field Test Evaluation of the Control and Repellent Efficacy of a Heated d-Allethrin Mat Against Caged and Free Flying Mosquitoes. | 49357001 | Thermacell Repellents, Inc. | OWN | |
| | | | | | |
| | | | | | |
| 810.3400 | Analysis of Thermacell 4-hour d-allethrin mat performance against free-flying Aedes mosquitoes | 49875701 | Thermacell Repellents, Inc. | OWN | |
| | | | | | |
| 830.XXXX | Thermacell® Mosquito Repellent Candle Lantern, EPA File Symbol 71910-4 [d-cis/trans allethrin@ 21.97%] Representative Device Temperature Data | 47406402 | Thermacell Repellents, Inc. | OWN | |
| | | | | | |
| | Generic Data | CITE-ALL | *** | PAY | |
| *** WILLERT HOME PRODUCTS, INC., PIC CORPORATION, S.C. JOHNSON & SON INC., BLOOD PROTECTION CO., (CHINA) LTD., SUMITOMO CHEMICAL COMPANY, LTD., COILS INTERNATIONAL, INC., ZOBELE HOLDING S.P.A., ENDURA S.P.A., BLOOD PROTECTION CO. LTD., FAMILY PRODUCTS SDN BHD, SPRAY DRIFT TASK FORCE, VALENT BIOSCIENCES CORPORATION, NON-DIETARY EXPOSURE TASK FORCE (NDET CSP/PIR), RESIDENTIAL EXPOSURE JOINT VENTURE (RE CSP/PIR), KERSLIG CANDLE LIGHT, SATHAPORN MARKETING COMPANY, LTD., 8-S INVESTMENT AND MANAGEMENT INC. | | | | | |
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| Signature  | | | Name and Title Timothy H. Dickens, Ph.D., Authorized Agent | | Date 07-25-18 |